

information to electronic device and/or receiving information from electronic device. Interface 2560 may be a physical interface (such as a universal serial bus (USB) storage device) and/or interface 2560 may be a wireless interface. Connecting portion of collar 2500 may include one or more containing portions and spacers, such as containing portions and spacers described herein. Containing portion and spacers may be housed within, coupled to, or in contact with housing 2510. For example, containing portion may be sliding lid that may slide away from housing, although this example is for illustration purposes only and containing portion may be other configurations, such as hinged upon housing 2510, snapped to housing 2510, and the like. Containing portion 2564 may include a substrate (e.g., PCB 2516) for holding electronic device 2508. Further, although portions of the housings (e.g., lid 2464, interface 2560, and/or containing portion 2564) may be described with reference to FIGS. 24 and 25, it should be understood that these descriptions are for illustration purposes only and one or more of the portions may be applied to one or more of the collars and/or attachments, as described herein.

[0113] FIGS. 26A, 26B, 26C show an example electronic device 2608 (FIG. 26C) configured to couple to collar 2600. Electronic device 2608 may be electronic device 200, as described herein. Electronic device 2608 may be housed within housing 2602. Housing may include an induction plate, as described herein, which may be used for charging electronic device 2608. Housing 2602 may be formed of a hard material, such as a plastic or other hard material. Housing 2602 may include one or more indicators 2604. Indicators 2604 may be visual indicators (e.g., light indicators, such as an LED light), audio indicators (e.g., sound indicators, such as a speaker), and the like. Indicators 2604 may provide visual information, such as power status information (e.g., indicating whether the electronic device is on/off), battery charge information (e.g., how much charge is remaining on the battery of the electronic device 2602), communication status information (e.g., if electronic device 2602 is capable of wirelessly communicating, or presently communicating), health monitoring information (e.g., if the pet is experiencing a health condition, levels in which the pet is exercising, eating habits of pet, etc.), reminder information (e.g., reminder to provide a medicine or meal for the pet), etc.

[0114] Housing 2602 of electronic device 2602 may couple to collar 2600, for example, via a strap of collar 2600. In examples strap of collar 2600 may include a base 2614 for receiving housing 2602 of electronic device 2608, although in other examples the strap of collar 2600 may couple to base 2614 via one or more attachment mechanisms. Base 2614 and/or housing 260 may be formed of a rigid material or may be formed of a soft or semi-rigid material. Base 2614 may include a cavity 2612 for receiving housing 2602 of electronic device 2608. Cavity 2612 may be formed to complement the size and shape of housing 2602 or may be sized/shaped generically to couple to one or more differently sized and shaped housings 2602 of electronic devices 2608. For example, base 2614 may be flat (e.g., without walls) such that differently sized and/or shaped housings 2602 may couple to base 2614.

[0115] Housing 2602 of electronic device 2608 may be coupled and decoupled from base 2614 via an attachment element. In examples, base may provide an aperture for accessing a coupling/decoupling element 2616 of base 2614.

For example, housing 2602 may include a mechanism 2610 (such as pins) that may couple to a corresponding attachment element 2616 of base 2614. A user may use finger manipulation to disengage mechanism 2610 from base 2614. The user may access element 2616 via aperture of base 2614 to disengage mechanism 2610 from base 2614. Housing 2602 of electronic device 2608 may be coupled to base 2614 in one or more of a variety of ways, such as via a magnet, clip, pin, buckle, clasp, snap, hinge, button, or adhesive, etc.

[0116] Housing 2602 may include a cavity, such as cavity 2626 (FIG. 26C). Cavity 2626 may house electronic device 2608. Housing 2602 may include one or more containing portions, such as lid 2604, which may be configured to retain sensor 2608 within cavity 2626. Lid 2604 may engage with a portion (e.g., top portion, side wall portion 2624, etc.) of cavity 2626 and be retained upon cavity 2626. For example, lid 2604 may open and close via a twisting action that engages and/or disengages from a threading found on wall portion 2624. In other examples containing portion may be a sliding lid, a snap lid, a hinged lid, a pressure-fitted lid, or may not be a lid. For example, containing portion may be a holding mechanism, such as hook and loop fastener, straps, and the like. Connecting portion 2454 may include an induction plate, such as induction plate 2466 described herein. Induction plate may be used to charge electronic device 2408. Induction plate may be positioned adjacent to electronic device 2608, under electronic device 2608, etc. For example, induction plate may be positioned under electronic device 2608 and on the side closest to the animal. Housing 2602 may include a substrate (e.g., 2620) that may hold electronic device 2608.

[0117] FIGS. 27A, 27B, 27C show an example housing 2702 for an electronic device (such as electronic device 200) that may couple to collar 2700. Housing 2702 of electronic device may couple to collar 2700, for example, via a strap of collar 2700. In examples strap of collar 2700 may include one or more bases for receiving a housing, such as top housing 2734. For example, bases may include a first base 2730 and/or a second base 2732 for receiving housing 2702, although in other examples first base 2730 and second base 2732 may derive a single base. First base 2730, second base 2732, and/or top housing 2734 may be formed of a rigid material or may be formed of a soft or semi-rigid material.

[0118] Housing 2702 may include a cavity, such as cavity 2712. Cavity 2712 may house an electronic device (such as electronic device 200). Housing 2712 may include one or more containing portions (such as top portion 2734), which may be configured to retain the electronic device within cavity 2712. Top portion 2734 may engage with a portion (e.g., first base 2730 and/or second base 2732) of cavity 2712 and be retained upon cavity 2712. For example, top portion 2734 may open and close via a sliding action. Top portion 2734 may be a snap lid, a hinged lid, or the like. In other examples, top portion 2734, first base 2730, and/or second base 2732 may include one or more attachment members, such as a clasping member, for attaching (e.g., snugly attaching) top portion 2734 with first base 2730 and/or second base 2732. Top portion 2734 may engage with first base 2730 and/or second base 2732 to provide a water-tight seal. In examples, second base portion 2732 may include seal 2736 (e.g., a pressure seal, gasket, etc.) that may provide a water-tight capability that may prevent water from entering the cavity 2712 upon engagement of top portion 2734 and second base portion 2732.